NO.NC/PMC/YD/2019-20/W3-BNM

Date: 03-01-2020

To,
The Executive Engineer,
Yelahanka Division
Bangalore.

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Subject: Regarding Quality Report for the below mentioned work.

Name of Work :Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03

Item No	Description of work	Unit	Qty	No of Samples Tested	Standards
1	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @	Cum	347.16	2	Per 100 cum
2	Providing and laying plain/reinforced cement concrete for side drains using M20	Cum	263.69	7	Per 50 cum
3	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including	Ton	20.46	2	For each dia
4	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and	Cum	220.69	2	Per 200 cum
5	Cement concrete pavement.Construction of un-reinforced plain cement concrete	Cum	220.69	5	Per 50 cum

With respect to the above subject & name of the work, we have tested the materials and the Quantity of above mentioned items of the work was found to be completed satisfactorily for the 1st and Final bill

Thanking you,

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With Regards,

For Newzen Consultants Bangalore

NC/QC/YD/2019-20/W3-BNM -C1 Date: 08-11-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**170 min**	Shall not be less than 30 min
2	Final setting time	**285 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.18 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.05 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.65 N/Sq mm**	Shall not be less than 27 N/Sqmm

Note:- The above tested Sample satisfies the requirement of IS: 12269-1987, IS: 8112-1989.

NEWZEN CONSULTANT BANGALORE

Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD/2019-20/W3-BNM -PCC1 **Date: 08-11-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements of Rec Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	68.70	0 -20	30- 70
10mm	23.75	0 -5	10- 35
4.75mm	4.15	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.35	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.10	60-95	75-100	85-100	
01.18	73.30	30-70	55-90	75-100	
600.mic	51.05	15-34	35-59	60-79	
300.mic	17.90	5-20	8-30	12-40	
150.mic	7.45	0-10	0-10	0-10	

Note: The above tested sample satisfies the requirement of IS: 383 : 2007

NEWZEN CONSULTANT BANGALORE

Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD/2019-20/W3-BNM-C2 **Date: 11-11-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**164 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.15 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**38.76 N/Sq mm**	Shall not be less than 27 N/Sqmm

NOte: The above tested sample satisfies the requirement of IS:12269-1987, IS: 8112-1989

NEWZEN CONSULTANT BANGALORE

Page No. 1/1,

For Newzen Consultants Bangalore
Proprietor

NC/QC/YD/2019-20/W3-BNM-PCC2 **Date: 11-11-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.10	0 -20	30- 70
10mm	25.90	0 -5	10- 35
4.75mm	4.30	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.45	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	84.90	60-95	75-100	85-100	
01.18	75.30	30-70	55-90	75-100	
600.mic	46.25	15-34	35-59	60-79	
300.mic	19.60	5-20	8-30	12-40	
150.mic	7.40	0-10	0-10	0-10	

Note: the above test results satisfy the requirement of IS 383-2007

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Page No. 1/1,

For Newzen Consultants Bangalore
Proprietor

NC/QC/YD/2019-20/W3-BNM-C3

Date: 13-11-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**172 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.08 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.13 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.96 N/Sq mm**	Shall not be less than 27 N/Sqmm

Note: The above tested sample satisfies the requirement of IS: 12269-1987, IS: 8112-1989

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W3-BNM-FA1 **Date: 13-11-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.50**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.15**	60-95	75-100	85-100	
01.18	**73.60**	30-70	55-90	75-100	
600. mic	**42.70**	15.34	35-59	60-79	
300.mic	**21.90**	5-20	8-30	12-40	
150.mic	**8.05**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**18.76 %**	-----
2	Silt Content	----	**0.57%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

Note: The above tested aggregate satisfies the Requirement of IS:383 - 2007

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Page No. 1/1,

For Newzen Consultants Bangalore
Proprietor

NC/QC/YD/2019-20/W3-BNM-CA1 **Date: 13-11-2019**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03.}

Ref.: Material testing/PMC/19-20,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.55	85-100	90 - 100
10 mm	43.90	0 - 20	25 - 55
4.75 mm	3.20	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS 383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	24.68 %	Not to exceed 25 %
2.	Crushing value	27.95 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

Note: The above tested sample satisfied the requirement of IS:383-2007

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For Newzen Consultants Bangalore
Proprietor

NC/QC/YD/2019-20/W3-BNM-S1 **Date: 13-11-2019**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12mm **TMT Steel.**
{Project*: Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.622**	0.567	**0.891**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**546.0**	500.0	**540.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.60**	12.00	**21.90**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**638s.0**	545.0	**632.0**	545.0

Note:- The above tested sample satisfy the requirement of IS:1786:2008

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Page No. 1/1,

For Newzen Consultants Bangalore
Proprietor

NC/QC/YD/2019-20/W3-BNM-CB1 Date: 23-11-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-11-19	23-11-19	07	22500	375	16.67	16.74
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	370	16.44	

Note: The above tested sample satisfied the requirement of IS: 516, 1959

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For Newzen Consultants Bangalore
Proprietor

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EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W3-BNM-CB2 **Date: 25-11-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-11-19	25-11-19	07	22500	370	16.44	**16.67**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

NOTE: The above tested sample satisfies the requirement of IS: 516; 1959

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Page No. 1/1,

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD/2019-20/W3-BNM-CB3 **Date: 27-11-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements of Rcc Drains and CC Roads to Main Roads at Basavalingappa Layout and Surrounding areas in Ward No.03.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-11-19	27-11-19	07	22500	375	16.67	**16.30**
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	365	16.22	

Note: The above tested sample satisfy the requirement of IS: S16 - 1959

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